IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A radio receiver comprising:

first and second antennas connected to a radio frequency processing circuitry by a radio frequency switch; and

a radio frequency switch control in communication with the radio frequency switch, wherein the radio frequency switch control is a media access control processor that is synchronized with transmission of a base station, the radio frequency switch control for switching between the first and second antennas in response to a predefined schedule of a sequence of scheduled packet bursts, wherein the sequence of scheduled packet bursts is prescribed by a quality of service defined by a media access control protocol, wherein the predefined schedule is scheduled by [[a]] the base station, wherein the sequence of scheduled packet bursts comprises a first signal burst received via the first antenna and a second signal burst received via the second antenna after the first signal burst, wherein the first signal burst and the second signal burst comprise identical packets of a common message, wherein an output of the radio receiver associated with the first signal burst is stored in a first buffer and an output of the radio receiver associated with the second signal burst is stored in a second buffer and wherein a representation of the common message is extracted by using a first symbol from the first buffer and a first symbol from the second buffer.

2. (Canceled)

3. (Canceled)

4. (Previously Presented) The radio receiver of claim 1, wherein:

the first and second antennas are switched so that each antenna receives a related packet burst.

5. (Currently Amended) A method of maintaining a controlled quality of service in a wireless communication system, comprising:

receiving by wireless transceivers scheduled communications from a transceiver at a transmission station in accordance with a predefined schedule of a sequence of scheduled packet bursts, wherein the sequence of scheduled packet bursts is prescribed by a quality of service defined by a media access control protocol, wherein the wireless transceivers are located at receiving stations having switched protocol diversity reception operational modes, wherein the predefined schedule is scheduled by the transmission station to switch between a first antenna and a second antenna;

enabling the first antenna to receive a first packet burst in accordance with the predefined schedule;

enabling the second antenna to receive a second packet burst after the first packet burst in accordance with the predefined schedule, wherein the first packet burst and the second packet burst comprise identical packets of a common message;

~~recording the received bursts as soft information in a storage medium; and~~

storing an output associated with the first packet burst in a first buffer;

storing an output associated with the second packet burst in a second buffer; and

processing ~~the soft information~~ a first symbol from the first buffer ~~from~~ associated with the first packet burst and a first symbol from the second buffer associated with the second packet burst ~~bursts~~ into a ~~single~~ representation of the common message.

6. (Original) The method of claim 5 wherein:

each packet burst contains a same complete message.

7. (Original) The method of claim 5 wherein:

each packet burst contains a portion of a space-time coded message spread across the first and second packet bursts.

8. (Currently Amended) A method of achieving a quality of service control in a wireless local area network communication system, comprising:

transmitting a message contained within a plurality of packet bursts occurring at

spaced time intervals, wherein a first packet burst and a second packet burst of the plurality of packet bursts comprise identical packets of a common message; ~~and~~

receiving ~~each of the~~ a first one of the packet bursts ~~individually~~ at ~~one of a plurality of antennas~~ a first antenna; and

receiving a second one of the packet bursts at a second antenna after the first one of the packet bursts in accordance with a predefined schedule, wherein the predefined schedule is prescribed by a quality of service defined by a media access control protocol, where the predefined schedule is scheduled by a base station and is used to select one of the first antenna and second antenna ~~plurality of antennas~~ for receiving each of the packet bursts, wherein an output of a radio receiver associated with the first one of the packet bursts is stored in a first buffer and an output of the radio receiver associated with the second one of the packet bursts is stored in a second buffer and wherein a representation of the common message is extracted by using a first symbol from the first buffer and a first symbol from the second buffer.

9. (Currently Amended) The method of claim 8 wherein;

~~each of the plurality of the antennas is~~ the first antenna and the second antenna are connected to [[a]] the radio receiver at separate times relative to other antennas.

10. (Original) The method of claim 8, wherein:

including a complete message within each packet burst.

11. (Currently Amended) The method of claim 8 wherein:

[[a]] the common message is spread across the plurality of packet bursts by space-time coding.

12. (Previously presented) The method of claim 8 wherein:

the transmitting combines a protocol with signal processing.

13. (Currently Amended) A communication system, comprising:

a radio frequency switch control in communication with a radio frequency switch,

wherein the radio frequency switch control is a media access control processor that is synchronized with transmission of a base station;

~~for coupling~~ a transmitter; and

a receiver coupled to the transmitter, wherein the ~~and a~~ receiver is adapted for receiving a first signal burst ~~and a second signal burst~~ by a first antenna and a second signal burst after the first signal burst by a second antenna ~~respectively,~~ and responding to the two signal bursts to communicate a single unified message at the receiver[[;]], wherein[[:]] the first and second signal bursts are sequentially separated in time in accordance with a predefined schedule, wherein the first and second signal bursts are prescribed by a quality of service defined by a media access control protocol, wherein the predefined schedule is scheduled by [[a]] the base station, wherein the first signal burst and the second signal burst comprise identical packets of ~~a common~~ the single unified message[[;]], wherein the first and second antennas are sequentially enabled in accordance with the predefined schedule to communicate with ~~a storage medium~~ a first buffer and a second buffer at the receiver[[;]] and ~~enabling~~ a representation of the single unified message is extracted by ~~responding to the first and second signal bursts~~ using a first symbol from the first buffer and a first symbol from the second buffer.

14. (Canceled)

15. (Currently Amended) The communication system of claim 13, wherein:

the first and second signal bursts are each part of a space-time coded message spread across two bursts; and

~~a common~~ the representation of the single unified message is derived from the sequential signal bursts received by the first and second antennas.

16. (Currently Amended) The communication system of claim 13, wherein:

~~the enabling includes retaining~~ the first signal burst is stored in the first buffer and the second signal bursts is stored in the second buffer ~~in the storage medium~~ and the first signal burst and the second signal burst are processed ~~processing~~ to deliver the single unified message.

17. (Currently Amended) The communication system of claim 15, wherein:

the deriving the ~~common~~ representation of the single unified message includes selecting a message from one of the first and second antennas.

18. (Currently Amended) The communication system of claim 15, wherein:

the deriving the ~~common~~ representation of the single unified message includes decoding a space-time coded signal spread across and received by both the first and second antennas.

19. (Previously Presented) The method of claim 8, further including:

notifying a transmitter at a transmitting end by a receiving end of a number of antennas and radio receivers at the receiving end.

20. (Previously Presented) The method of claim 8, further including:

a receiver notifying a transmitter that the receiver accepts and responds to protocol-assisted diversity operations.

21. (Currently Amended) The method of claim 8, further including:

upon ~~reconstruction of a received~~ extraction of the representation of the common message sending a message to a transmitting end to cease further message bursts.